

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	481	546/211.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 14:32
L2	4	L1 and ullman	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 14:33
L3	2	L1 and ullmann	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 14:34
L4	91	L1 and copper	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 14:33
L5	556	sertindole	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 14:34
L6	0	L% and ulman	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 14:35
L7	8	L5 and ullmann	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 14:35

EAST Search History

L8	0	L5 and ullman	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 14:35
S1	4977	hicks.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 09:47
S2	9017	indoles.ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 09:48
S3	4	S1 and S2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 09:49
S4	3836	Rhodia.as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 09:49
S5	5	S1 and S4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 10:08
S6	212	sarges.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 10:08

EAST Search History

S7	5	S6 and indolone.ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 10:24
S8	7	"5298625"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 14:32

10509668.trn

Connecting via Winsock to STN

Welcome to STN International! Enter x:X

LOGINID:SSPTADK01625

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

***** Welcome to STN International *****

NEWS 1 JUL 01 Web Page for STN Seminar Schedule - N. America
NEWS 2 JUL 02 IMEDLINE coverage updated
NEWS 3 JUL 02 SCISEARCH enhanced with complete author names
NEWS 4 JUL 02 CHEMCATS accession numbers revised
NEWS 5 JUL 02 CA/Caplus enhanced with utility model patents from China
NEWS 6 JUL 16 Caplus enhanced with French and German abstracts
NEWS 7 JUL 18 CA/Caplus patent coverage enhanced
NEWS 8 JUL 26 USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 9 JUL 30 USGENE now available on STN
NEWS 10 AUG 06 CAS REGISTRY enhanced with new experimental property tags
NEWS 11 AUG 06 BEILSTEIN updated with new compounds
NEWS 12 AUG 06 FSTA enhanced with new thesaurus edition
NEWS 13 AUG 13 CA/Caplus enhanced with additional kind codes for granted patents
NEWS 14 AUG 20 CA/Caplus enhanced with CAS indexing in pre-1907 records
NEWS 15 AUG 27 Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS 16 AUG 27 USPATOLD now available on STN
NEWS 17 AUG 28 CAS REGISTRY enhanced with additional experimental spectral property data
NEWS 18 SEP 07 STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS 19 SEP 13 FORIS renamed to SOFIS
NEWS 20 SEP 13 INPADOCDB enhanced with monthly SDI frequency
NEWS 21 SEP 17 CA/Caplus enhanced with printed CA page images from 1967-1998
NEWS 22 SEP 17 Caplus coverage extended to include traditional medicine patents
NEWS 23 SEP 24 EMBASE, EMBAL, and LEMBASE reloaded with enhancements

NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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10509668.trn

research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

***** STN Columbus *****

FILE 'HOME' ENTERED AT 09:10:56 ON 25 SEP 2007

=>Testing the current file.... screen

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Please change to a suitable file and repeat your upload

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> file casreact

FILE 'CASREACT' ENTERED AT 09:11:18 ON 25 SEP 2007
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
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FILE CONTENT:1840 - 22 Sep 2007 VOL 147 ISS 14

New CAS Information Use Policies, enter HELP USAGETERMS for details.

* CASREACT now has more than 12 million reactions *

Some CASREACT records are derived from the ZIC/VINITI database (1974-1999) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 1929

L1 SCREEN CREATED

=>

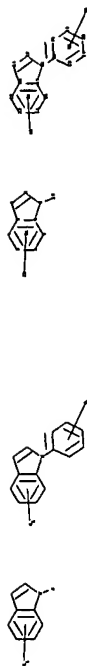
Uploading C:\Program Files\Stnexp\Queries\10509668initial.str

Page 2

10509668.trn

10509668.trn

fragments assigned product role:
containing 10
reaction site bonds:
9-19:CC 18-20:CC
node mappings:
8:17 7:16 9:18



chain nodes :
27 28 30
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 20 21 22 23 24
25
ring/chain nodes :
19
chain bonds :
9-19 18-20
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 10-11 10-15 11-12 12-13 13-14
14-15 14-16 15-18 16-17 17-18 20-21 20-25 21-22 22-23 23-24 24-25
exact/norm bonds :
5-7 6-9 7-8 8-9 14-16 15-18 16-17 17-18 18-20
exact bonds :
9-19
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 10-11 10-15 11-12 12-13 13-14 14-15 20-21
20-25 21-22 22-23 23-24 24-25
G1:H,X
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 27:CLASS 28:CLASS 30:CLASS
31:Atom 32:Atom 33:Atom
fragments assigned reactant role:
containing 1

L2 STRUCTURE UPLOADED

=> que L2 AND L1

L3 QUE L2 AND L1

=> d l3

L3 HAS NO ANSWERS

L1 SCR 1929

L2 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.
L3 QUE ABB=ON PLO=ON L2 AND L1

=> s l1

SAMPLE SEARCH INITIATED 09:11:47 FILE 'CASREACT'

SAMPLE SCREEN SEARCH COMPLETED

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.08

50 ANSWERS

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**

BATCH **INCOMPLETE**

PROJECTED VERIFICATIONS: 10797493 TO 10838387

PROJECTED ANSWERS: 461462 TO 470978

L4 50 SEA SSS SAM L1 (1627 REACTIONS)

=> s l3

SAMPLE SEARCH INITIATED 09:12:00 FILE 'CASREACT'

SCREENING COMPLETE - 4769 REACTIONS TO VERIFY FROM

268 DOCUMENTS

100.0% DONE 4769 VERIFIED 46 HIT RXNS

SEARCH TIME: 00.00.01

8 DOCS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED VERIFICATIONS: 91251 TO 99509

PROJECTED ANSWERS: 8 TO 329

L5 8 SEA SSS SAM L2 AND L1 (46 REACTIONS)

=> d scan

10509668.trn

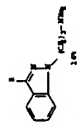
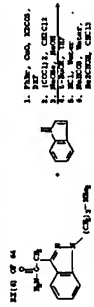
LA 6 ANTENSE CASREACT COPYRIGT 1997 ACS INC. ETC
TI Relative activity for compounds tested in procedures for separation of α -halogenated
of nitrogen-containing lipophilic compounds



NOTE: Relative value

END LAST PAGE ANTENSE DO YOU WANT TO SCRAP (111)

LA 6 ANTENSE CASREACT COPYRIGT 1997 ACS INC. ETC
TI Relative activity for compounds tested in procedures for separation of α -halogenated
of nitrogen-containing lipophilic compounds



END LAST PAGE ANTENSE DO YOU WANT TO SCRAP (112)

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FILE 'STINGUIDE' ENTERED AT 09:12:30 ON 25 SEP 2007
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=> file casreact
FILE 'CASREACT' ENTERED AT 09:13:21 ON 25 SEP 2007
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FILE CONTENT:1840 - 22 Sep 2007 VOL 147 ISS 14

New CAS Information Use Policies, enter HELP USAGETERMS for details.

+ CASREACT now has more than 12 million reactions
+

Some CASREACT records are derived from the ZIC/VINITI database (1974-1999) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Rieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 1976

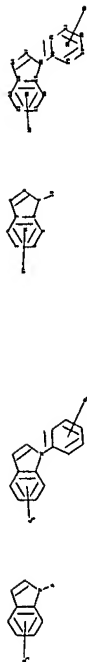
L6 SCREEN CREATED

=> Uploading C:\Program Files\Stnexp\Queries\10509668twohalogens.str

10509668.trn

10509668.trn

fragments assigned reactant role:
containing 1
fragments assigned product role:
containing 10
reaction site bonds:
9-19:CC 18-20:CC
node mappings:
8:17 7:16 9:18



L7 STRUCTURE UPLOADED

=> que L7 AND L6

L8 QUE L7 AND L6

=> s 18

SAMPLE SEARCH INITIATED 09:13:42 FILE 'CASREACT'
SCREENING COMPLETE - 2909 REACTIONS TO VERIFY FROM 174 DOCUMENTS

100.0% DONE 2909 VERIFIED 19 HIT RXNS 4 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED VERIFICATIONS: 54951 TO 61409
PROJECTED ANSWERS: 4 TO 199

L9 4 SEA SSS SAM L7 AND L6 (19 REACTIONS)

=> d scan

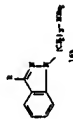
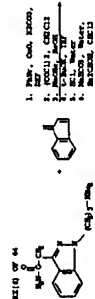
chain nodes :
27 28 30
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 20 21 22 23 24
25
ring/chain nodes :
19
chain bonds :
9-19 18-20
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 10-11 10-15 11-12 12-13 13-14
14-15 14-16 15-18 16-17 17-18 20-21 20-25 21-22 22-23 23-24 24-25
exact/norm bonds :
5-7 6-9 7-8 8-9 14-16 15-18 16-17 17-18 18-20
exact bonds :
9-19
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 10-11 10-15 11-12 12-13 13-14 14-15 20-21
20-25 21-22 22-23 23-24 24-25

G1:H,X

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 27:CLASS 28:CLASS 30:CLASS
31:Atom 32:Atom 33:Atom

19. 4 ANSWERS CISELECT COPYRIGHT 2007 ACS on STM

21. How do hydrophilic lipids act as inhibitors of protein kinase C- β ?
 When hydrophilic lipids bind to the catalytic domain of PKC- β , they prevent the binding of diacylglycerol to the hydrophobic domain, thus inhibiting the enzyme's activity.



DO NOT HAVE ANYTHING TO SAY? (11)

```

=> 1
1 IS NOT A RECOGNIZED COMMAND

```

The previous command name entered was not recognized by the system. For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (=>).

$$\Rightarrow s \text{ 18 full}$$

FULL SEARCH INITIATED 09:14:54 FILE 'CASREACT'

FULL SEARCH INITIATED 09:14:34 FILE CASREACT
SCREENING COMPLETE - 43139 REACTIONS TO VERIFY FROM 3227 DOCUMENTS

100.0% DONE 43139 VERIFIED 825 HIT RXNS

100.0% DONE 43139 V
SEARCH TIME: 00.00.08

L10 132 SEA SSS FUL L7 AND L6 (825 REACTIONS)

=> d scan

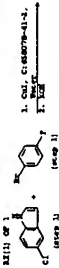
L4 4 ANSWERS CASHIACCT CONFIDENT 1007 ACS on 97M
 TT 1-Phenyl-2 (1H, 2H) -indolinespacing 1.8msec
 EX(24) OF 229



DO NOT WRITE IN THESE SPACES

10 4 ANSWER EASY CONTACT COPYRIGHT 2007 ACS INC 317

TI Copper-catalyzed arylation of nucleophiles and its application, e.g.,

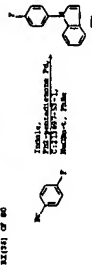


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110 110 ARTVERS CARSACT CORTICOST 1007 ACS ON STN
TI 110 110 ARTVERS CARSACT CORTICOST 1007 ACS ON STN
TI 110 110 ARTVERS CARSACT CORTICOST 1007 ACS ON STN

RE(14) OF 80



HOW MANY MORE ARTVERS DO YOU WISH TO SCAMP (111)

110 110 ARTVERS CARSACT CORTICOST 1007 ACS ON STN
TI 110 110 ARTVERS CARSACT CORTICOST 1007 ACS ON STN
TI 110 110 ARTVERS CARSACT CORTICOST 1007 ACS ON STN

RE(13) OF 118



NOTE: 110 110 ARTVERS CARSACT CORTICOST 1007 ACS ON STN

HOW MANY MORE ARTVERS DO YOU WISH TO SCAMP (111)

110 110 ARTVERS CARSACT CORTICOST 1007 ACS ON STN
TI 110 110 ARTVERS CARSACT CORTICOST 1007 ACS ON STN
TI 110 110 ARTVERS CARSACT CORTICOST 1007 ACS ON STN

RE(19) OF 20

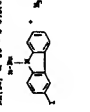


NOTE: 110 110 ARTVERS CARSACT CORTICOST 1007 ACS ON STN

HOW MANY MORE ARTVERS DO YOU WISH TO SCAMP (111)

110 110 ARTVERS CARSACT CORTICOST 1007 ACS ON STN
TI 110 110 ARTVERS CARSACT CORTICOST 1007 ACS ON STN
TI 110 110 ARTVERS CARSACT CORTICOST 1007 ACS ON STN

RE(14) OF 25 - 3 STEPS



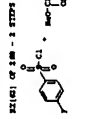
NOTE: 110 110 ARTVERS CARSACT CORTICOST 1007 ACS ON STN

HOW MANY MORE ARTVERS DO YOU WISH TO SCAMP (111)

10509668.trn

110 110 ARTVERS CARSACT CORTICOST 1007 ACS ON STN
TI 110 110 ARTVERS CARSACT CORTICOST 1007 ACS ON STN
TI 110 110 ARTVERS CARSACT CORTICOST 1007 ACS ON STN

RE(16) OF 24 - 3 STEPS



NOTE: 110 110 ARTVERS CARSACT CORTICOST 1007 ACS ON STN

HOW MANY MORE ARTVERS DO YOU WISH TO SCAMP (111)

110 110 ARTVERS CARSACT CORTICOST 1007 ACS ON STN
TI 110 110 ARTVERS CARSACT CORTICOST 1007 ACS ON STN
TI 110 110 ARTVERS CARSACT CORTICOST 1007 ACS ON STN

RE(17) OF 20



NOTE: 110 110 ARTVERS CARSACT CORTICOST 1007 ACS ON STN

HOW MANY MORE ARTVERS DO YOU WISH TO SCAMP (111)

110 110 ARTVERS CARSACT CORTICOST 1007 ACS ON STN
TI 110 110 ARTVERS CARSACT CORTICOST 1007 ACS ON STN
TI 110 110 ARTVERS CARSACT CORTICOST 1007 ACS ON STN

RE(14) OF 20



NOTE: 110 110 ARTVERS CARSACT CORTICOST 1007 ACS ON STN

HOW MANY MORE ARTVERS DO YOU WISH TO SCAMP (111)

RE(14) OF 20



NOTE: 110 110 ARTVERS CARSACT CORTICOST 1007 ACS ON STN

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'DISPLAY SCAN' IS NOT VALID IN CURRENT FILE

The DISPLAY SCAN command is not valid in the current file.
Enter HELP FORMATS and HELP DFIELDS to see valid DISPLAY
options in current file.

=> file casreact
FILE 'CASREACT' ENTERED AT 09:16:53 ON 25 SEP 2007
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FILE CONTENT:1840 - 22 Sep 2007 VOL 147 ISS 14

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+ CASREACT now has more than 12 million reactions
+

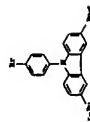
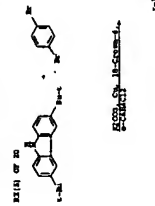
Some CASREACT records are derived from the ZIC/VINITI database (1974-1999)
provided by InfoChem, INPI data prior to 1986, and Biotransformations
database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance
identification.

=> d scan

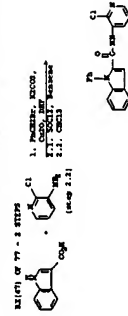
10509668.trn

110 110 AMERZES CASREACT COPYRIGHT 2007 ACS on STM
*Chemical Abstracts Express as a Single-Database Component for File
Access/Management*

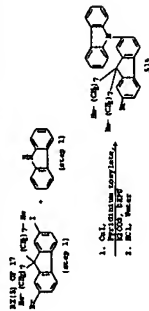


NEW CASREACT AMERZES 2007 VOL 147 ISS 14

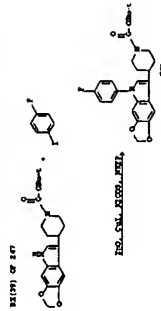
110 110 AMERZES CASREACT COPYRIGHT 2007 ACS on STM
*Chemical Abstracts Express as a Single-Database Component for File
Access/Management*



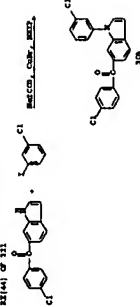
L10 132 AMSTERDAM CARRIAGE COMPANY 1007 ACS ON STM



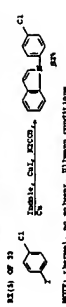
L10 132 AMBERS CLASSACT COPYRIGHT 2007 ACS on STM
 TI Synthesis and structure-affinity relationship investigations of
 8-oxononanal and 8-carboxyl nonanol as ligands of the multicopper
 new class of selective acrylonitrile copolymerization



L10 L32 ANTHERS CANNELACT COPYRIGHT 2007 ACS ON STM
 BRAINDEVELOPMENTAL TOXICITY OF NON-ETHYLENEGLYCOLS
 TI based on 1,1,1-trichloroethane, 1,1,2-trichloroethane and activity

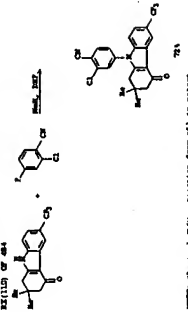


110 132 ANSWERS CONTACT COPYRIGHT 2007 ACS 6TH EDITION



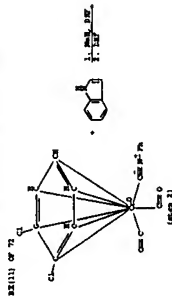
METTER: "better!" out as better W) human commodity same

110 132 AMSTERDAM CONTACT CONFIDENT 1007 ACS ON STD
 11 Preparation of Tetrahydroisoindole-1,3-dithione derivatives as
 and 1,3-dithione derivatives.

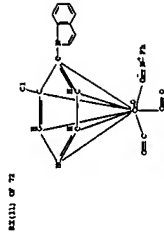


NOTE: chromomycin lactams, reaction from p51 in patent

110 132 AMSTERDAM CASREACT COPYRIGHT 2007 ACS and STM
TI Polymer-Supported α -Imino Carboxylic Biscarbonyl Isocyanide Complexes: A
Study of Their Synthesis and Reactivity

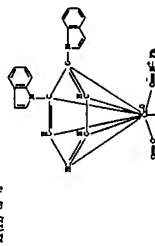


Q. 21



EX-111 OF 72

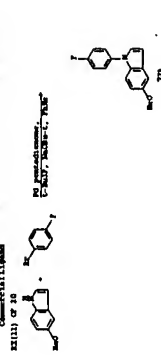
L10 132 AMSTERDAM CONTACT COPYRIGHT 2007 ACS on STM (Continued)



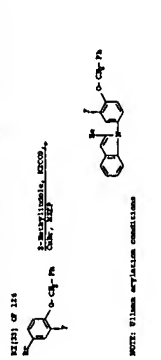
SUBJECT: [REDACTED]

1050968.trn

110 131 AMERES CEREACT COPYRIGT 1007 ACS on 27N
 TI: New-Temperature-Dependent Catalytic Activity of Aryl Bromides and Commercial Ligand

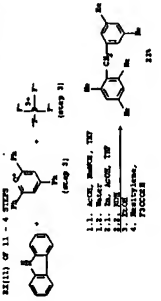


110 132 AMERES CEREACT COPYRIGT 1007 ACS on 27N
 TI: 2,5-Bis(benzylidene)phenylboronic acid and its derivatives as ligands for the synthesis of 2,5-bis(benzylidene)phenylboronic acid derivatives

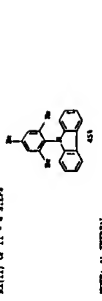


NOTE: Wilson's reaction conditions

110 133 AMERES CEREACT COPYRIGT 1007 ACS on 27N
 TI: Carbonyl-activated ligands: synthesis and reaction

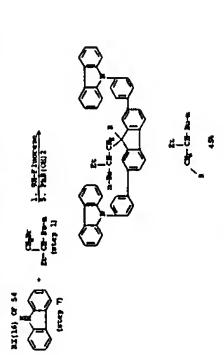


RE(13) OF 11 - 4 STEPS



NOTE: 4) TETRAOL

110 134 AMERES CEREACT COPYRIGT 1007 ACS on 27N
 TI: Preparation of 2,7-diphenyl-1,3-bis(phenyl)phosphine with multiphase absorption



NOTE: 1,1,1,1-tetra-phenyl-2,2,2,2-tetra-phenyl-1,3-bis(phenyl)phosphine

110 135 AMERES CEREACT COPYRIGT 1007 ACS on 27N
 TI: Preparation of phosphine ligands for metal and improved metal-catalyzed processes based thereon

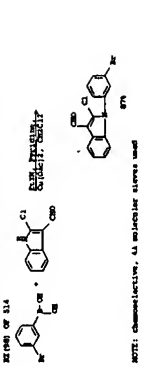


110 136 AMERES CEREACT COPYRIGT 1007 ACS on 27N
 TI: Cyl/peptide-catalyzed synthesis of nitrogen heterocycles



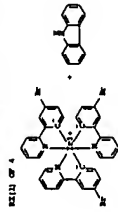
NOTE: An organotin compound

110 137 AMERES CEREACT COPYRIGT 1007 ACS on 27N
 TI: Preparation of substituted imidazole as inhibitors of poly(ADP-ribose) polymerase (PARP)



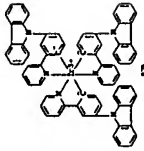
NOTE: Chemo-inactive, 4,4'-biphenyl diamine

110 132 ANSWERS CASSECKT 2007 ACS on STN

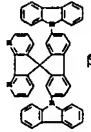
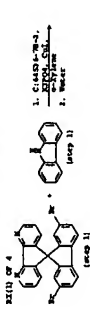


2010-11-12

EX-100-4

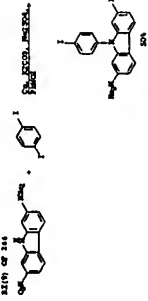


L10 L32 ANSWERS CASREACT COPYRIGHT 2007 ACS on STM

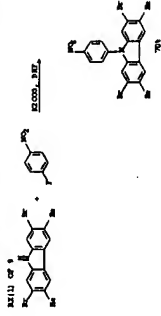


10509668.trn

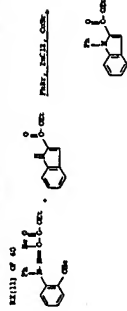
L10 L32 ANSWERS CONTACT COPYRIGHT 2007 ACS OR STM



11 Preparation and properties of 4-dialkylamino-2-phenyl-2H-functionallised 2,7-linked carbazole polymers



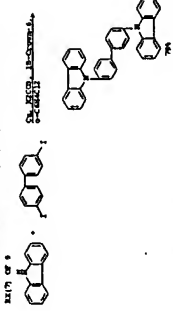
L10 L32 ARTICLES CASREACT COPYRIGHT 2007 ACS on STM



NOTE: 0,0

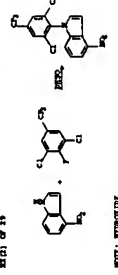
110 132 ADVANCE CANCELLATION 1007 ACS ON STM

11 Towards an understanding of structure-property relationships in
12 poly- π -conjugated materials: The influence of molecular conformation on
13 the electronic properties of polyacetylene



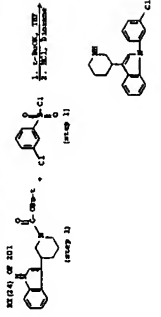
NOTE: Ullmann conditions

L10 L32 AMTRES CASESACT COPYRIGTHO7 ACS ON STM
TI M-entitledand their was as herbicide



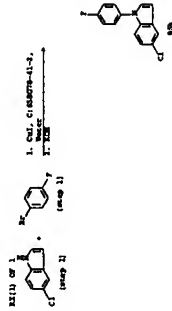
NOTE: ITPOC0121

2.10 132 AMSTERS CLASSACT COM18CT1007 ACS on 31W
TI ConformationalIsomersofthe(11-aryl)aminoalkylamide derivatives as
5-HT₂ receptor antagonists



10509668.tin

110 131 AMTENS CARSACT COPYRIGT 1007 ACS on 27M
TI Copper-catalyzed arylation of nucleosides and its applications, e.g.,



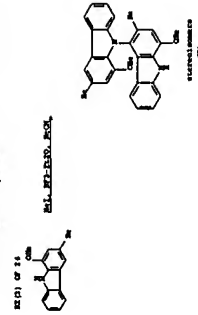
110 131 AMTENS CARSACT COPYRIGT 1007 ACS on 27M
TI Replacement of the quaternary system in 2-phenyl-4-quinolylacetonitrile



110 131 AMTENS CARSACT COPYRIGT 1007 ACS on 27M
TI Ligands for metal- and improved metal-catalyzed processes based thereon



110 131 AMTENS CARSACT COPYRIGT 1007 ACS on 27M
TI Selective arylation of nucleosides and its applications, e.g.,



110 131 AMTENS CARSACT COPYRIGT 1007 ACS on 27M

TI Synthesis and photophysical properties of (60) fullerene adducts carrying

aliphatic chains

RE(1) OF 11 - REACTION DIAGRAM NOT AVAILABLE

110 131 AMTENS CARSACT COPYRIGT 1007 ACS on 27M

TI Preparation of bis(oxazol-5-yl)aryls compounds for use in organic

electroluminescence

RE(1) OF 1



NOTE: Alternative Patent shown

110 131 AMTENS CARSACT COPYRIGT 1007 ACS on 27M

TI 1-Phenyl-4-(1,3,5-trimethylphenyl)pyridine

RE(1) OF 110

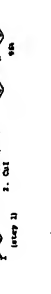


110 131 AMTENS CARSACT COPYRIGT 1007 ACS on 27M

TI A versatile and efficient ligand for copper-catalyzed arylation of C-H

C-H and C-C bonds: Pyridine-2-thiophenyl-phenylboronic acid

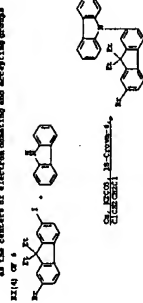
RE(1) OF 1



10509668.tin

110 113 ANTHERS CISEACT COPYRIGHT 1907 ACS on STM

TI Synthesis and characterization of 2,4,6-trisubstituted-1,3,5-triazines with R and S



NOTE: solid-supported reagent

110 113 ANTHERS CISEACT COPYRIGHT 1907 ACS on STM

TI A Versatile Linkage Strategy for Solid-Support Synthesis of

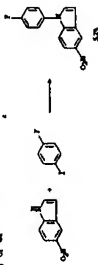


NOTE: solid-supported reagent

110 113 ANTHERS CISEACT COPYRIGHT 1907 ACS on STM

TI Monocyclic aromatic compounds 2,4,6-trisubstituted-1,3,5-triazine

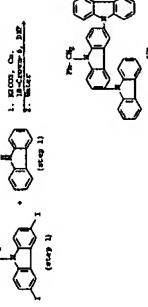
RI(1) OF 44



110 113 ANTHERS CISEACT COPYRIGHT 1907 ACS on STM

TI An efficient 3-1 step for solvent polarity sensor

RI(1) OF 11

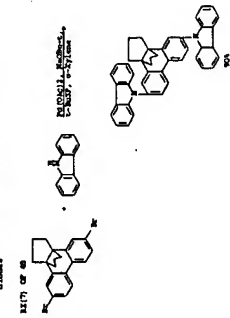


NOTE: thermal

10509668.tin

110 113 ANTHERS CISEACT COPYRIGHT 1907 ACS on STM

TI Preparation of phenanthrene derivatives for use in supramolecular

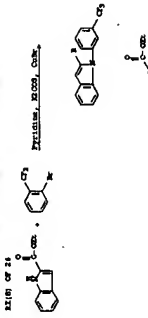


NOTE: solid-supported reagent

110 113 ANTHERS CISEACT COPYRIGHT 1907 ACS on STM

TI Fischer imidations of 2,4,6-trisubstituted-1,3,5-triazine

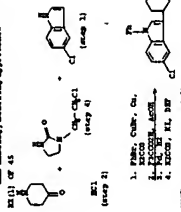
RI(1) OF 11



NOTE: 10 R, 100 deg

110 113 ANTHERS CISEACT COPYRIGHT 1907 ACS on STM

TI Characterization of 2,4,6-trisubstituted-1,3,5-triazine



NOTE: reaction, assumed linker

110 113 ANTHERS CISEACT COPYRIGHT 1907 ACS on STM

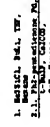
TI Synthesis and optical properties of aromatic carbonates based on

RI(1) OF 11

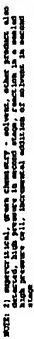


110 132 ANSWERS CASELACT COPYRIGHT 2007 ACS OR STM

EX(0) OF 73 - 1 511M



1. Beitrich, Bd. 1, IV,
Beitrich
2.1. P2-pentadecimale Pd,
C-Bd, C-Bd
2.2. C-Bd



110 132 ANSWERS CASEBRIEF COPYRIGHT 2007 ACS ON STM

EX(4) OF 7

210 LIE ANSWERS CASABACTY COPYRIGHT 2007 ACS on STM

42 NO (CZ)IR
 22(22) OF 25

NOTE: eye irritation study

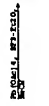
1110 133 ANSWERS CASHIACY COPYRIGHT 1907 AGE 68 STM

0 20 (S) 0



L10 132 ANSWERS CASEFACT COPYRIGHT 1997 ACS on STM

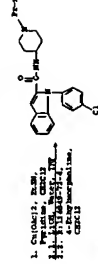
Axially Chiral N, C-Coupled Biaryl Alkaloid



FD-302 (Rev. 5-22-64)

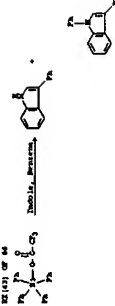
1110 132 AMERICA CASHIAC COPYRIGHT 2007 AGE 68 STM

124 - 2 STEPS



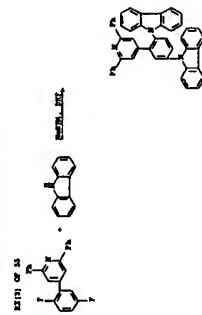
NOTE: If response continues

110 133 ANSWERS CASH/RIGHT 2007 ACE AND STM

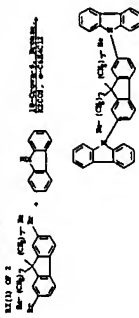


1050968.tin

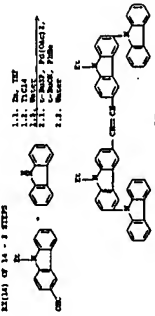
110 131 ARTVERS CASEACT COPYCT 1007 ACS on 27N
 TI Preparation of 3,4-dichloro-1,2,3,4-tetrahydronaphthalene-1-carboxylic acid and organic derivatives



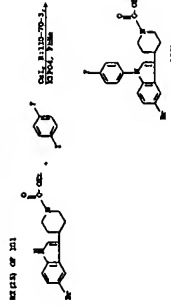
110 131 ARTVERS CASEACT COPYCT 1007 ACS on 27N
 TI Large library-pharmaceuticals from 1,2,3,4-tetrahydronaphthalene-1-carboxylic acid and organic derivatives



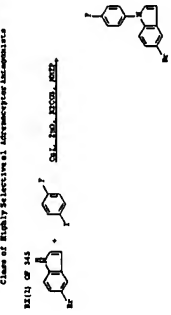
110 131 ARTVERS CASEACT COPYCT 1007 ACS on 27N
 TI Synthesis of 1,2,3,4-tetrahydronaphthalene-1-carboxylic acid and organic derivatives



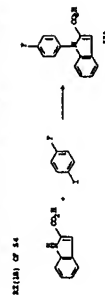
110 131 ARTVERS CASEACT COPYCT 1007 ACS on 27N
 TI Synthesis of 1,2,3,4-tetrahydronaphthalene-1-carboxylic acid and organic derivatives



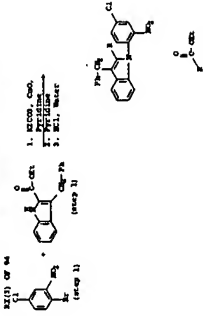
110 131 ARTVERS CASEACT COPYCT 1007 ACS on 27N
 TI Synthesis of 1,2,3,4-tetrahydronaphthalene-1-carboxylic acid and organic derivatives



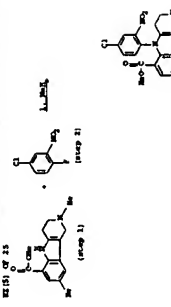
110 131 ARTVERS CASEACT COPYCT 1007 ACS on 27N
 TI Selective, generally active, 1,2,3,4-tetrahydronaphthalene-1-carboxylic acid and organic derivatives



110 131 ARTVERS CASEACT COPYCT 1007 ACS on 27N
 TI Synthesis of 1,2,3,4-tetrahydronaphthalene-1-carboxylic acid and organic derivatives

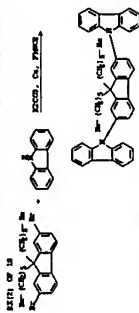


110 131 ARTVERS CASEACT COPYCT 1007 ACS on 27N
 TI First synthesis of 1,2,3,4-tetrahydronaphthalene-1-carboxylic acid and organic derivatives



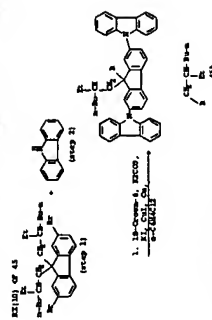
10509668.trn

110 133 ARTVERS CASREACT COPYRIGHT 1907 ACS on STM
T1 Synthesis and characterization of B-carbonyl-substituted ligands



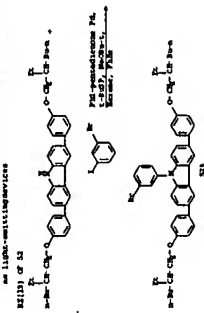
NOTE: products depend on substitution of reactants

110 133 ARTVERS CASREACT COPYRIGHT 1907 ACS on STM
T1 Preparation of asymmetric fluorine derivatives with multiple absorption



NOTE: Wilson condensation

110 133 ARTVERS CASREACT COPYRIGHT 1907 ACS on STM
T1 Preparation of neutral ruthenium metal complexes and their use as light-emitting devices

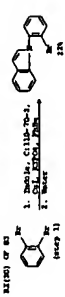


110 133 ARTVERS CASREACT COPYRIGHT 1907 ACS on STM
T1 Efficient Palladium-Catalyzed Arylation of Indoles

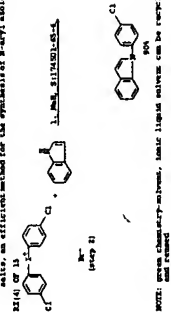


10509668.trn

110 133 ARTVERS CASREACT COPYRIGHT 1907 ACS on STM
T1 Palladium-Catalyzed Arylation of Aryl Bicyclopentadienyls with N-arylimines

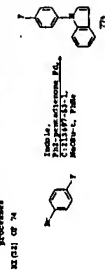


110 133 ARTVERS CASREACT COPYRIGHT 1907 ACS on STM
T1 Trans liquid-crystalline-arylation of bisphosphines with diarylimines salts, an efficient method for the synthesis of B-aryl amines



NOTE: B-aryl amines can be recycled

110 133 ARTVERS CASREACT COPYRIGHT 1907 ACS on STM
T1 Biaryl phosphine and amine ligands for improved transition metal-catalyzed processes



110 232 ANSWERS CASHIAC COPYRIGHT 1007 ACS ON STM

TI 2-Phenylindoles. Effect of N-benzyl-L-tyrosine estrophen receptor affinity, estrophenic properties, and mammary tumor inhibiting activity

EX-71) OF 100 - 2 STOPS

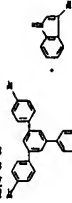


1. FeBr_3 , C_6H_6 , KNO_3 ,
 H_2O
 2. Li^+ , Br^- , CH_3COO^- , H_2O
 3. Li^+ , AcO^- , Pyridine

110 131 ANSWERS CASHIACCT COPYRIGHT 2007 ACS ON STM

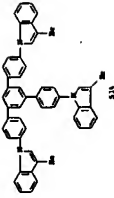
7-Aminodipyrromethene and indole-3-pyruvate are precursors of the heme biosynthetic pathway. The heme biosynthetic pathway is a series of reactions that convert these precursors into heme, a vital component of hemoglobin. The pathway involves several intermediates, including 5-aminolevulinic acid (ALA), uroporphyrinogen, and coproporphyrinogen. The final product, heme, is a complex molecule that contains a central iron atom coordinated by four nitrogen atoms in a porphyrin ring. The heme molecule is then incorporated into hemoglobin, a protein that carries oxygen in the blood. The heme biosynthetic pathway is a critical process for the production of hemoglobin, and any disruption of this pathway can lead to severe anemia and other health problems.

1314 6 28



CuI, CuI₂CO₃,
1,10-Phenanthroline,

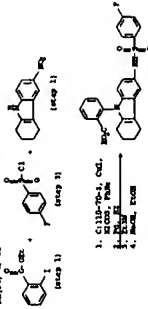
2014-07-20



110 132 ANSWER CASHIERS CREDIT 1007 ACS ON STN

21 Isospecific granulation allows: selective and patent. CPT-2 and isospecific

231348

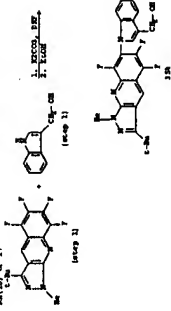


NOTES: Villanova compiling

210 132 ANSWERS CASEMATE COPYRIGHT 2007 ACS on STM

TI Regiospecific nucleophilic substitution of fluorine in fused tetrafluorobenzene lines with N- and O-nucleophiles

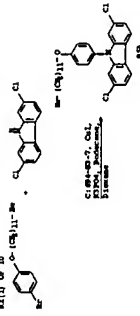
NY 101/11



110 122 ANSWERS CASEELECT COPYRIGHT 2007 ACS ON STM

TI Blue light emitting poly [N-arylcycbazol-2,7-ylene] s

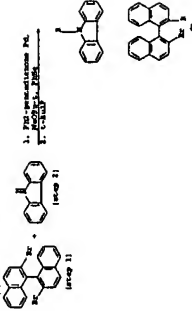
ST-110-001-10



110 192 UNSUBS CASREACT COPYRIGHT2007 ACS am STM

VI The double N-arylation of primary amines: Toward multisubstituted carbazoles with unique optical properties

91 20 (c) III

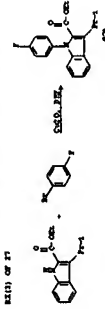


10509668.trn

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

VI Preparation of 4-phosphoryl-2-keto-carboxylates and 6-phosphoryl-3-keto-carboxylate intermediates used in the preparation of phosphorus

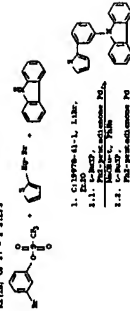
CONCLUSION



FILE NO 67A 6002 LBN7 EL603 12778573 PZLASHW 661 017
110 133 ANSWERS CASHTEXT CONTACT 1007 ACS ON STM

VI Metal complex comprising coordinate ligands with divalent linkers and organic electrochromic device thereof

FORM NO. 7 - 1 (Rev. 6-80)



1. C129970-41-1, L12R,

1.1. 1-100,
12.20

Paul-Joachim Mielke

3.3. L-PALP.

10509668.tin

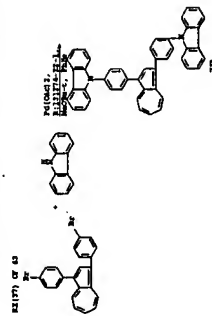
110 131 ARTVERS CASREACT COPYRCHT 1007 ACS on STM

TI Synthesis and biological activities of novel arylamide-3-carboxylamide
compounds as PPAR γ partial agonists



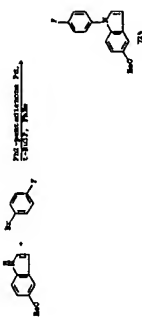
110 131 ARTVERS CASREACT COPYRCHT 1007 ACS on STM

TI Synthesis of *N,N'*-bis(4-aminophenyl)-2,2'-bis(4-aminophenyl)ethanediol
and its derivatives as potential ligands for copper(II) complexes



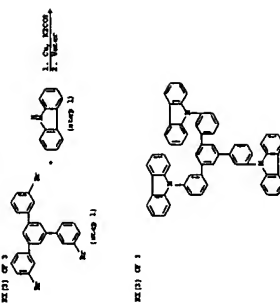
110 131 ARTVERS CASREACT COPYRCHT 1007 ACS on STM

TI Transition metal-complexes for propargylamine
derivatives



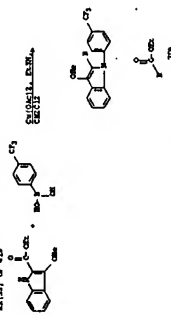
110 131 ARTVERS CASREACT COPYRCHT 1007 ACS on STM

TI Synthesis of *N*-substituted-2-aminophenylamine
derivatives as potential ligands for copper(II) complexes



110 131 ARTVERS CASREACT COPYRCHT 1007 ACS on STM

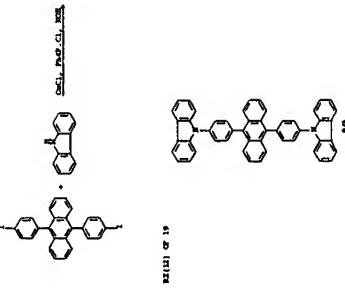
TI Synthesis and biological activities of novel arylamide-3-carboxylamide
compounds as PPAR γ partial agonists



NOTE: See also, 44, molecular structure

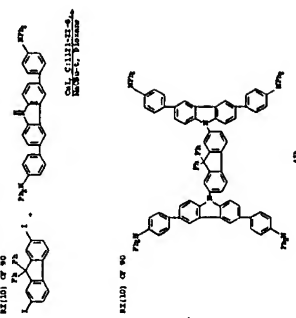
110 131 ARTVERS CASREACT COPYRCHT 1007 ACS on STM

TI Process for preparation of arylamine
derivatives



110 131 ARTVERS CASREACT COPYRCHT 1007 ACS on STM

TI Synthesis and Properties of 2,2'-bis(4-aminophenyl)ethanediol
derivatives



110 131 ARTVERS CASREACT COPYRCHT 1007 ACS on STM

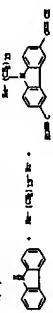
TI 2,2'-bis(4-aminophenyl)ethanediol and its
derivatives



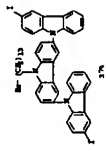
L10 113 ANSWERS CASEFACT COPYRIGHT 1907 ACS on STM

EX(18) OF 180 - 3 STOPS

EX(18) OF 120 - 3 STEPS



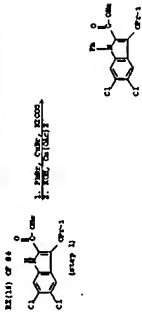
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L10 132 ANSWERS CONTACT COPYRIGHT 2007 ACS and STM

VI Synthesis of novel 1-phenyl-1*H*-indole-2-carboxylic acids, X. Utilization of Willmann and Dieckmann reactions for the preparation of 3-hydroxy,

3-alkoxy, and 3-alkyl derivatives



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TI High Triplet Energy Polymer as Host for Electrophosphorescence with High Efficiency

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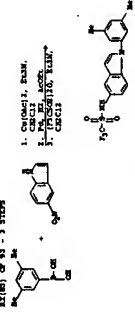


NOTE: 1) no solvent, solid state, thermal, 2) regioselective

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DATE 12-22-2007 BY 60322 UCBAW/stm

T1 Design and synthesis of subtype-selective cyclooxygenase (COX) inhibitors derived from thalidomide

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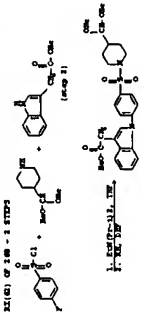
NOTE: 1) molecular sieves used

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110 132 ANSWERS CASHBACK COPYRIGHT 2007 ACS on STM

TI More substituted 4'-aminomethylipiperidines potent and selective human

FD-302a (Rev. 1-25-60)



110 132 ANSWERS CASINACT COPYRIGHT 2007 ACS on STM

VI Synthesis of novel star-shaped carbazole-functionalized polyarylethers
 20/01/09 11 - REACTION DATA NOT AVAILABLE

RECEIVED AT THE UNIVERSITY OF ALABAMA LIBRARY - 12 5 1967

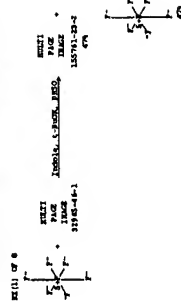


NOTE: 1) Vibration conditions, 2) Vibration reaction

110 132 AMERICA'S CASUALTY COMPANY 2007 ACS ON STE

II Synthesis of some heterocyclic derivatives of (7-acetoxy)-*p*-cyclopentadienyl) iron (II) hexafluorophosphate including estimation of dihydrogen content in both free and complexed form

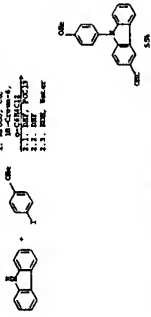
PRO TIP



110 132 ANSWERS CONTRACT 2007 ACS am STM

II Synthesis and properties of glass-forming hydrazones with 9-(4-methoxybenzyl)carboxyl groups

TABLE 7 - 6 AND 1(c)M

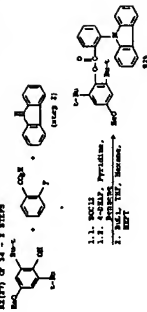


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110 132 ANSWERS CARSFACT COPYRIGHT 2007 ACS US STM

TJ Fluorene-Containing Macrolimers

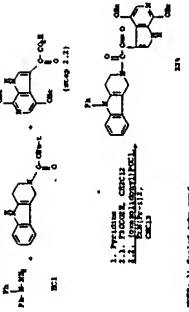
RE(3) OF 13 - REACTION DIAGRAM NOT AS



L10 L33 INVESTIG CASERACT COPYRIGHT 2007 ACS on STM

II Synthesis and Photophysical Properties of Carbazole-BeordFluore Light-Emitting Dimers

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110 192 ANSWERS CASETEXT COPYRIGHT 2007 ACE AND SIM

TI Phenylcarbazole-*bis*-ether compound and organic electroluminescent device employing the same

EX-107-1-1000



Page 38

110 131 ANSWERS CASES/ACT COPYRIGHT 2007 ACS on STM
 TI Process for preparation of fibrous-containing-carbazole derivatives as
 organic electroluminescent elements
 EX(1) OF 2 - REACTION DIAGRAM NOT AVAILABLE

[illegible]Oc1ccc(cc1)-c2c3ccccc3cc2Cl

77 Preparation of monocarbonylamine inhibitors of microsomal prenyltransferase-1 (DPPC-1) useful in the treatment of

11 (group 1) + 12 (group 2) $\xrightarrow[\text{DMSO, } 120^\circ\text{C, 24 hr}]{\text{K}_2\text{CO}_3}$ 13 (group 1)

O=C(c1ccc(Cl)cc1)c2ccc(cc2C(=O)c3ccc(Cl)cc3)C(=O)c4ccc(Cl)cc4

MODE: molecular sieve 1, micromer titration is used

2,5-DI-*tert*-BUTYL-4-METHYLPHENOL

25(7) OF 21 - 2 STEPS

NOTE: 1) Various conditions, 2) regional lecture

II Method of crystallizing α,α -heterocyclic with activated aromatic compounds in the presence of cesium carbonate

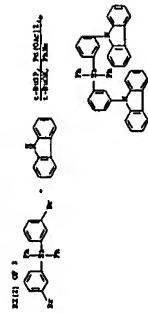
TI Synthesis of indole [1,3-*c*] pterocarboline from palladium-catalyzed reactions of arynes

NOTE: Mercury-Buckman LA reaction, by 5-7

Page 42

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110 131 AMERICA CARBON COPYRIGHT 1907 ACS on STM
TI Organic electroluminescence

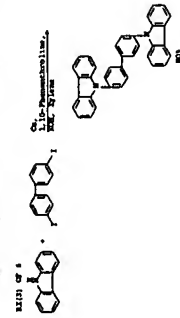


110 131 AMERICA CARBON COPYRIGHT 1907 ACS on STM
TI Indole(1,3-b)carbazole-Base Thin-Film Transistors with High Mobility and
Stability
* STRUCTURE DIAGRAM TOO LARGE FOR REPLAY - AVAILABLE VIA OFFLINE PRINT *

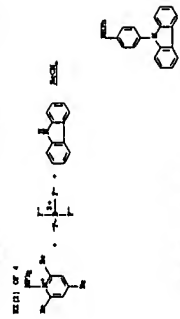
NOTE: 1) representative, 2) chosen composition

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110 131 AMERICA CARBON COPYRIGHT 1907 ACS on STM
TI Process for preparation of triarylimine materials for organic
light-emitting diodes



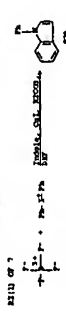
110 131 AMERICA CARBON COPYRIGHT 1907 ACS on STM
TI Synthesis of triarylimine materials for organic
light-emitting diodes



NOTE: room light, photoluminescence

110 131 AMERICA CARBON COPYRIGHT 1907 ACS on STM

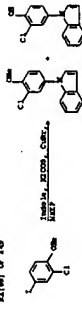
TI Synthesis of triarylimine materials for organic
light-emitting diodes



NOTE: optimized on catalyst

110 131 AMERICA CARBON COPYRIGHT 1907 ACS on STM

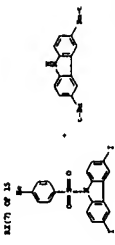
TI A novel class of "phthalic" organo-1-aryl-3-(substituted)phthalic
anhydrides



NOTE: thermal

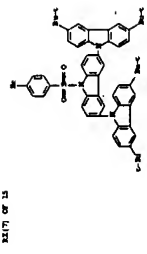
110 131 AMERICA CARBON COPYRIGHT 1907 ACS on STM

TI Reduction of triarylimine materials for organic
light-emitting diodes



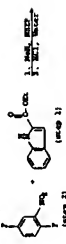
RE(1) OF 13

RE(1) OF 13



110 131 AMERICA CARBON COPYRIGHT 1907 ACS on STM

TI Two step synthesis of substituted indole(1,2-b)carbazole-4-one

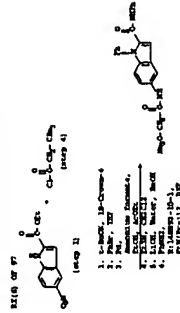


NOTE: nonconductive

10509668.trn

110 132 ANSWERS CONTACT COPYRIGHT 2007 ACS on STM (Cont. Inmed.)

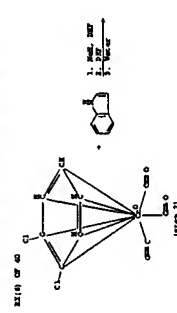
L10 122 483723 CASREACT COPY1907 ACS on STD
YI Novel, selective indole-based ECI inhibitors: Lead optimization via
solid-phase and classical synthesis



DOI: 10.1002/anie.200701000

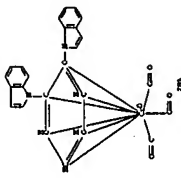
110 132 AM59245 CASEFACT COPYRIGHT 2007 ACS on STM

II Synthesis and electrochromism of thiophene-based bipolar molecules with different arylamine moieties

NOTES: 1) modified Ulmanns condensation, 2) regioselective,
the authors are grateful to the Ministry of Science and Technology
of the Government of India.

Page 46

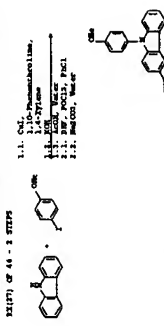
110 133 ANSWERS CASCADIA CONFIDENT 2007 ACS on 87M (Continued)



NOTE: sealed tube used stage 1, Wilcoxon coupling stage 3

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED DATE 07-11-2007 BY 60322

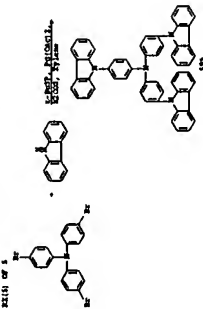
II Synthesis and electrochromic properties of chlorane-based dipolar molecules with different arylamine moieties



NOTE. 1) modified Ullmann condensation; 2) regiosubstitutive;
3,3', 3,4', 3,5', 4,4', 4,5'

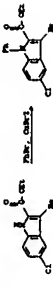
10509668.trn

TI Method for preparation of N-arylamides



110 131 ANTISENSE CASRNACTY COPYRIGT 1997 ACS AM STM
 111 Betadinesinapine. 111. Syntheses of 4-benzodiazepine derivatives
 112

CC 40 (01/17)



COMING NEXT WEDNESDAY 7P

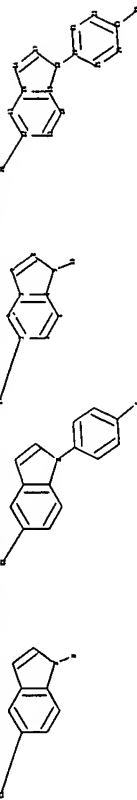
10509668.trn

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=> ...Testing the current file... screen
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ENTER SCREEN EXPRESSION OR (END): end

4

Uploading C:\Program Files\Stnexp\Queries\10509668specific.str



ring nodes :

25 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 20 21 22 23 24

ring/chain nodes :

19	27	28	29
----	----	----	----

chain bonds :

3-27 9-19 1

ring bonds :

1-2 1-6 2-3

14-15 14-16

exact/norm bc	$\epsilon = 7$	$\epsilon = 0$	$\gamma = 0$
1	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000
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16	0.0000	0.0000	0.0000
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18	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000
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24	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000
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73	0.0000	0.0000	0.0000
74	0.0000	0.0000	0.0000
75	0.0000	0.0000	0.0000
76	0.0000	0.0000	0.0000
77	0.0000	0.0000	0.0000
78	0.0000	0.0000	0.0000
79	0.0000	0.0000	0.0000

5-7 6-9 7-8

exact bonds : 3-27 9-19 1

3-27 9-19 1
normalized by

normalized by
1-2 1-6 2-3

1-2 1-6 2-5
20-25 21-22

G1:H,X

Match level :

1:Atom 2:Atom

11:Atom 12:Atom

20:Atom 21:A

fragments ass.

containing 10

fragments ass.

containing 1

reaction site
0-10.00 10-20

9-19:CC 18-21

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Page 48

10509668.trn

node mappings:
8:17 7:16 3:12 4:13 9:18

L11 STRUCTURE UPLOADED

=> que L11

L12 QUE L11

=> s l12

SAMPLE SEARCH INITIATED 09:21:18 FILE 'CASREACT'
SCREENING COMPLETE - 18 REACTIONS TO VERIFY FROM

100.0% DONE 18 VERIFIED 1 HIT RXNS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED VERIFICATIONS: 106 TO 614
PROJECTED ANSWERS: 1 TO 79

L13 1 SEA SSS SAM L11 (1 REACTIONS)

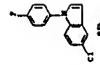
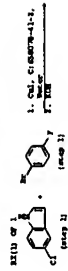
=> d scan

7 DOCUMENTS

1 DOCS

10509668.trn

L13 1 ANSWER (SELECT CONFIRMATION) ACS on STD
TI Copper-catalyzed arylation of heterocycles and its applications, a review



ALL ANSWERS HAVE BEEN SCANNED

10509668.trn

=> s l12 full

FULL SEARCH INITIATED 09:21:31 FILE 'CASREACT'
SCREENING COMPLETE - 634 REACTIONS TO VERIFY FROM

100.0% DONE 634 VERIFIED 2 HIT RXNS

SEARCH TIME: 00.00.01

L14 2 SEA SSS FUL L11 (2 REACTIONS)

=> d scan

155 DOCUMENTS

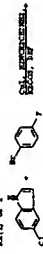
2 DOCS

10509668.trn

L14 2 JNTERS CASREACT CONFIDENTIAL ACS IN STM

TI Section for identification of materials

RE(1) OF 1



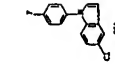
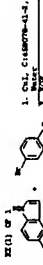
NOTE: OPTIMIZATION STUDY

HOW MANY MORE JNTERS DO YOU WISH TO SCRY (1) 1

L14 2 JNTERS CASREACT CONFIDENTIAL ACS IN STM

TI Section for identification of materials

RE(1) OF 1



ALL JNTERS HAVE BEEN SCANNED

10509668.trn

=> file caplus
FILE 'CAPLUS' ENTERED AT 09:21:51 ON 25 SEP 2007
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FILE CONTENT:1840 - 22 Sep 2007 VOL 147 ISS 14

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 09:10:56 ON 25 SEP 2007)

10509668.trn

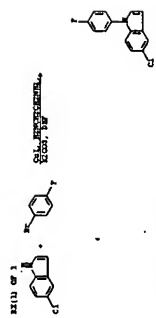
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L1 SCREEN 1929
L2 STRUCTURE UPLOADED
L3 QUE L2 AND L1
L4 50 S L1
L5 8 S L3

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L6 SCREEN 1976
L7 STRUCTURE UPLOADED
L8 QUE L7 AND L6
L9 4 S L8
L10 132 S L8 FULL

FILE 'STNGUIDE' ENTERED AT 09:15:49 ON 25 SEP 2007
L11
L12 STRUCTURE UPLOADED
L13 QUE L11
L14 1 S L12
2 S L12 FULL

FILE 'CAPLUS' ENTERED AT 09:21:51 ON 25 SEP 2007

FILE 'CASREACT' ENTERED AT 09:21:58 ON 25 SEP 2007
=> d l14 cbib abs ferd

[illegible][illegible][illegible]

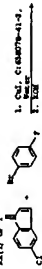
NOTE: OPTIMIZATION STUDY
CON: STAGE (1) ROOM TEMPERATURE -> 40 DEG C; 13 HOURS, 40 DEG C;
 (2) 100 DEG C; 15 MINUTES, 100 DEG C;

=> log hold					
COST IN U.S. DOLLARS	SINCE FILE	TOTAL			
	ENTRY	SESSION			
	14.58	247.94			
FULL ESTIMATED COST					
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL			
	ENTRY	SESSION			
	-2.19	-2.19			
CA SUBSCRIBER PRICE					
SESSION WILL BE HELD FOR 120 MINUTES					
STN INTERNATIONAL SESSION SUSPENDED AT 09:23:32 ON 25 SEP 2007					

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 09:23:32 ON 25 SEP 2007

10509668.trn

114 ANSWER 1 OF 2 CASUALTY COEFFICIENT 1007 ACS ON STM
(Cont. J answer)



CON: STAGE (2) ROOM TEMPERATURE 5 MINUTES, ROOM TEMPERATURE

12 The lowest run refers to sample 149 (D112) (corrected run = (actual run) \times (aluminum 31) \times (iron 57) \times (calcium 28) \times (magnesium 24) \times (silica 21) \times (potassium 17) \times (sulfur 16) \times (phosphorus 15) \times (nickel 14) \times (cobalt 13) \times (manganese 12) \times (barium 11) \times (zinc 10) \times (lead 9) \times (chromium 8) \times (molybdenum 7) \times (vanadium 6) \times (titanium 5) \times (niobium 4) \times (zirconium 3) \times (beryllium 2) \times (boron 1) \times (fluorine 0.5) \times (lithium 0.25) \times (hydrogen 0.125) \times (oxygen 0.0625) \times (nitrogen 0.03125) \times (carbon 0.015625) \times (hydrogen 0.0078125) \times (oxygen 0.00390625) \times (nitrogen 0.001953125) \times (carbon 0.0009765625) \times (hydrogen 0.00048828125) \times (oxygen 0.000244140625) \times (nitrogen 0.0001220703125) \times (carbon 0.00006103515625) \times (hydrogen 0.000030517578125) \times (oxygen 0.0000152587890625) \times (nitrogen 0.00000762939453125) \times (carbon 0.000003814697265625) \times (hydrogen 0.0000019073486328125) \times (oxygen 0.00000095367431640625) \times (nitrogen 0.000000476837158203125) \times (carbon 0.0000002384185791015625) \times (hydrogen 0.00000011920928955078125) \times (oxygen 0.000000059604644775390625) \times (nitrogen 0.0000000298023223876953125) \times (carbon 0.00000001490116119384765625) \times (hydrogen 0.000000007450580596923828125) \times (oxygen 0.0000000037252902984619140625) \times (nitrogen 0.00000000186264514923095703125) \times (carbon 0.000000000931322574615478515625) \times (hydrogen 0.0000000004656612873077392578125) \times (oxygen 0.00000000023283064365386962890625) \times (nitrogen 0.000000000116415321826934814453125) \times (carbon 0.0000000000582076609134674071875) \times (hydrogen 0.00000000002910383045673370359375) \times (oxygen 0.000000000014551915228366851796875) \times (nitrogen 0.0000000000072759576141834258984375) \times (carbon 0.00000000000363797880709171294921875) \times (hydrogen 0.000000000001818989403545856474609375) \times (oxygen 0.0000000000009094947017729282373046875) \times (nitrogen 0.00000000000045474735088646191865234375) \times (carbon 0.000000000000227373675443230959326171875) \times (hydrogen 0.0000000000001136868377216154796630859375) \times (oxygen 0.00000000000005684341886080773983154296875) \times (nitrogen 0.000000000000028421709430403869915771484375) \times (carbon 0.0000000000000142108547152019349578857421875) \times (hydrogen 0.00000000000000710542735760096747894287109375) \times (oxygen 0.000000000000003552713678800483739471435546875) \times (nitrogen 0.0000000000000017763568394002418697357177734375) \times (carbon 0.000000000000000888178419700120934867858886953125) \times (hydrogen 0.0000000000000004440892098500604674339294430859375) \times (oxygen 0.00000000000000022204460492503023371696472154296875) \times (nitrogen 0.000000000000000111022302462515116858482360771484375) \times (carbon 0.0000000000000000555111512312575584292411803857421875) \times (hydrogen 0.00000000000000002775557561562877921462059019287109375) \times (oxygen 0.0000000000000000138777878078143896073102950964296875) \times (nitrogen 0.000000000000000006938893903907194803655147548234375) \times (carbon 0.0000000000000000034694469519535974018275737741171875) \times (hydrogen 0.0000000000000000017347234759767987009137868870589375) \times (oxygen 0.00000000000000000086736173798839935045689344352946875) \times (nitrogen 0.000000000000000000433680868994199675228446721764734375) \times (carbon 0.0000000000000000002168404344970998376142233608823671875) \times (hydrogen 0.00000000000000000010842021724854991880711168044118359375) \times (oxygen 0.000000000000000000054210108624274959403555840220589375) \times (nitrogen 0.0000000000000000000271050543121374797017779201102946875) \times (carbon 0.00000000000000000001355252715606873985088896005514734375) \times (hydrogen 0.000000000000000000006776263578034369925444480027573671875) \times (oxygen 0.000000000000000000003388131789017184962722240013786889375) \times (nitrogen 0.0000000000000000000016940658945085924813611200068934375) \times (carbon 0.00000000000000000000084703294725429624068056000344671875) \times (hydrogen 0.000000000000000000000423516473627148120340280001723359375) \times (oxygen 0.0000000000000000000002117582368135740601701400008616796875) \times (nitrogen 0.000000000000000000000105879118406787030085070000430839375) \times (carbon 0.00000000000000000000005293955920339351504253500002151696875) \times (hydrogen 0.000000000000000000000026469779601696757521267500010758484375) \times (oxygen 0.0000000000000000000000132348898008483787606337500053792421875) \times (nitrogen 0.0000000000000000000000066174449004241893803168750026

Page 55